# **Credit Requirements for Power Purchase Agreements**

Fong Wan, VP Energy Procurement Pacific Gas and Electric Company

California Energy Commission Workshop

June 27, 2006

## **Defining Credit Risk**

Possible loss associated with counterparty default



## **Types of Credit Risk**

Payment risk

Performance risk



#### **Performance Risk**

Contract replacement

Market conditions



## Mitigating Performance Risk

Collateral

Contract terms and conditions



#### **Collateral**

Offer deposit

Security during construction period

Security during operations



#### **Offer Deposit**

Risk: unreliable offer

 Mitigation: deposits upon reaching milestones for selection and approval



### **Security During Construction Period**

Risk: delay or failure to complete

Mitigation: delay damages



#### **Security During Operations**

Risk: contract breach

- Mitigation: posting of collateral
  - Mark-to-market posting
  - Revenue-based posting



#### **Contract Terms and Conditions**

#### Termination

- Pre Commercial Operations Date
- Post Commercial Operations Date

